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TRADE IN GRAIN FUTURES

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January, 1937

SPECIAL: Deliveries of grain on 1936 December futures at contract markets.

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COMMODITY EXCHANGE ADMINISTRATION

U. S. Department of Agriculture, Washington, D. C.

J. W. T. Duvel Chief

J. M. Mehl....Assistant Chief

FIELD OFFICES

Chicago, Illinois: L. A. Fitz, In charge

Room 906- 332 S. LaSalle St.

Markets supervised: Chicago Board of Trade

Chicago Open Board of Trade St. Louis Merchants' Exchange

Milwaukee Grain and Stock Exchange

Kansas City, Missouri: W. F. Logan, In charge

854 Board of Trade Bldg.

Market supervised: Kansas City Board of Trade

Minneapolis, Minnesota: J. R. Mathewson, In charge

510 Chamber of Commerce Bldg.

Markets supervised: Minneapolis Chamber of

Commerce

Duluth Board of Trade

New York, New York: Geo. H. Baston, In charge

45 Broadway

Market supervised: New York Produce Exchange

Sacramento, California: L. M. Jeffers, In charge

Capitol Extension Office Bldg.

Markets supervised: Los Angeles Grain Exchange

Grain Trade Association of San Francisco Cham-

ber of Commerce

Seattle, Washington: L. E. Wolf, In charge

509 Federal Office Bldg.

Markets supervised: Seattle Grain Exchange

Portland Grain Exchange

Table 1. WHEAT: Daily volume of trading (sales)
Chicago Board of Trade, during January, 1937.

(In thousands of bushels, i.e., 000 omitted)

Date		F U T U R	E	All Wheat
	May	July	Sept.	- Futures
January, 1937				
Holiday				
Holiday				
Sunday				
4	19,245	6,456	974	26 675
5	29,631	11,565 H		26,675
6	28,139	-	1,264	42,460
7		10,465	1,134	39,738
	19,885	7,377	1,030	28,292
8	16,655	9,251	1,595	27,501
	18,885	6,517	1,250	26,652
Sunday				
11	17,190	6,304	1,742	25,236
12	23,749	8,032	2,255	34,036
13	22,616	8,200	2,339	33,155
14	21,275	9,234	2,564	33,073
15	18,724	6,226	2,921	27,871
16	12,980	5,859	1,731	20,570
Sunday	•	,	- , · · · -	20,0.0
18	10,096	3,545	1,319	14,960
19	22,395	8,750	3,024 H	34,169
20	30,100 H	10,337		•
21	•	•	2,887	43,324 H
22	16,991	6,031	1,634	24,656
23	27,941	9,698	2,498	40,137
	16,949	5,166	1,036	23,151
Sunday	7.0.000			
25	12,081	5,154	1,840	19,075
26	14,591	5,102	1,850	21,543
27	21,530	8,661	2,474	32, 655
28	19,630	8,826	2,294	30,750
29	14,692	7,504	2,223	24,419
30	6,940 L	2,805 L	974 L	10,719 L
Sunday				
Total,				
January, 1937	462,910	177,065	44,852	684,827
Total,				
December, 1936	697,444	241,341	3,128	1,012,890(1)
Total,				
January, 1936	299,275	77,358	12,589	389,222
	255,2710	,555		000,000

⁽¹⁾ Total includes 70,977 December wheat.

Table 2. WIEAT: Daily volume of trading (sales) all futures combined, at four principal markets, during January, 1937.

(In thousands of bushels, i.e., 000 omitted) Duluth(1) Chi cago Minneapolis Kansas City Date Board of Board of Chamber of Board of Total Trade Trade Trade Commerce January, 1937 Holiday Holiday Sunday 4 26,675 1,573 2,254 65 II 30,567 5 1,775 42,460 2,479 29 46,743 6 39,738 1,270 1,943 64 43,015 7 28,292 1,294 2,339 13 31,938 8 27,501 1,078 1,603 5 30,187 9 1,797 1,034 27 29,510 26,652 Sunday 11 25,236 1,168 1,575 18 27,997 12 34,036 1,069 2,159 41 37,305 13 14 33,155 1,433 1,590 36,192 14 1,294 1,949 33,073 12 36,328 15 27,871 2,091 8 30,994 1,024 16 20,570 10 1,075 1,524 23,179 Sunday 18 14,960 752 1,287 3 17,002 19 34,169 1,451 2,452 17 38,089 20 43,324 II 1,683 3,260 H 33 48,300 H 21 1,791 27,514 1,061 6 24,656 22 1,645 3,179 7 44,968 40,137 23 1,233 23,151 1,425 37 25,846 Sunday 25 19,075 1,158 1,334 12 21,579 26 21,543 1,052 1,357 8 23,960 27 7 36,030 32,665 1,253 2,105 28 30,750 1,730 13 34,374 1,881 H 29 24,419 13 26,633 1,040 1,161 30 10,719 L 892 L 2 L 12,244 L 631 L Sunday Total, J'nuary, 1937 464 760,494 684,827 29,927 45,276 Total, December, 1936 1,012,890 44,311 84,793 1,400 ,143,394 Total. 24,072 January, 1936 437,942 389,222 23,414 1,234

⁽¹⁾ All Durum.

Table 3. WHEAT: Daily open commitments of Clearing members, Chicago Board of Trade, during January, 1937

(In thousands of bushels, i.e., 000 omitted)

Date			F U T U R	E	All Wheat
		May	July	Sept.	Futures
January, 19 Holiday Holiday Sunday	937				
5 unday 4 5 6 7 8 9 Sunday		75,283 II 74,367 73,409 73,279 73,140 72,787	25,746 L 26,539 26,994 26,986 27,906 27,804	1,870 L 2,284 2,663 2,908 3,455 3,726	102,899 L 103,190 103,066 103,173 104,501 104,317
11 12 13 14 15 16 Sunday		73,379 73,127 72,983 72,718 71,830 71,488	28,194 28,335 28,108 28,768 29,180 29,165	3,935 4,815 5,766 6,834 7,653 8,284	105,508 106,277 106,857 108,320 108,663 108,937
18 19 20 21 22 23		71,890 72,133 70,454 70,264 68,607 67,906	29,240 29,266 II 28,821 28,667 28,146 28,239	8,552 8,921 9,139 9,445 9,862 10,165	109,682 110,320 H 108,414 108,376 106,615 106,310
Sunday 25 26 27 28 29 30 Sunday		68,052 67,855 66,723 66,073 65,840 65,469 L	28,788 28,558 28,161 28,222 28,748 29,137	10,385 10,642 10,536 10,771 11,252 H 11,229	107,225 107,055 105,420 105,066 105,840 105,835
Average,					
January,	1937	70,794	28,238	7,296	106,328
Average,	1936	66,608	20,892	260	97,171(1)
Average,	1936	81,907	24,891	2,173	108,972

⁽¹⁾ Average includes 9,461 average open commitments December wheat.

Table 4. WHEAT: Daily open commitments of Clearing Members, all futures combined, at four principal markets, during January, 1937.

(In thousands of bushels; i.e., 000 omitted)

	(III dioasaids of o			
	Chicago	Minneapolis	Kansas City	Duluth(1)
Date	Board of	Chamber of	Board of	Board of Total
	Trade	Commerce	Trade	Trade
January, 1937				
Holiday				
Holiday				
Sunday				
4	102,899 L	7,714	16,171	444 127,228 L
5	103,190	7,758	15,982	444 127,374
6	103,066	7,767	16,005	444 127,282
7	103,173	7,827 H	16,172	452 127,624
8	104,501	7,750	16,142	452 128,845
9	104,301	7,730	16,058	447 128,461
Sunday	104,317	7,009	10,000	120,401
11	105,508	7,554	16,388	438 L 129,888
12	•			•
	106,277	7,460	16,327	•
13	106,857	7,439	16,371	442 131,109
14	108,320	7,422	16,670	447 132,859
15	108,663	7,430	16,682	450 133,225
16	108,937	7,355	16,404	450 133,146
Sunday				
18	109,682	7,363	16,289	449 133,783
19	110,320 H	7,299	16,382	455 134,456 H
SO SO	108,414	7,336	16,702 H	464 132,916
21	108,376	7,209	16,468	465 H 132,518
22	106,615	6,990	15,688	464 129,757
23	106,310	6,950	15,558	450 129,268
Sunday				
25	107,225	6,830	15,545	443 130,043
26	107,055	6,843	15,349	440 129,687
2.7	105,420	6,850	15,168	441 127,879
28	105,066	6,701	15,170	451 127,388
29	105,840	6,657	15,063 L	451 128,011
30	105,835	6,611 L	15,175	449 128,070
Sunday	200,000	0,000	,	,
Average,				
January, 1937	106,328	7,281	15,997	449 130,055
Average,	200,000	1,700	20,001	
Pecember, 1936	97,171	7,780	15,578	491 121,020
Average,	013212	1,100	-0,010	
January, 1936	108,972	8,013	13,566	772 131,323
2000	100,010	0,010	10,000	110 2027

H-highest; L-lowest. (1) All durum.

Table 5. WHEAT: Daily high, low and closing prices of various futures, Chicago Board of Trade, during January, 1937.

(In cents per bushel) F U U Date M Υ Y A JU L High Low Closing High Closing Low January, 1937 Holiday Holiday Sunday 135 5/8-3/4 : 119 1/4 H 118 118 7/8-119 136 1/4 H 134 3/4 5 132 1/2 132 7/8-3/4 : 118 1/4 115 3/4 116-115 7/8 135 6 131 3/8 131 7/8-3/4 : 117 115 1/4 116-115 3/4 133 3/8 7 134 133 1/2-5/8 : 117 3/4 116 3/4 117 1/8-1/4 133 1/8 8 133 1/4 114 7/8 114 7/8-115 132 1/8-1/4 : 116 5/8 132 9 134 3/8 134-133 7/8 : 116 7/8 116 3/4-5/8 115 132 1/2 Sunday 115 1/4 11 134 1/8 132 7/8 133 3/4-5/8 : 116 5/8 116 1/8-1/4 12 134 3/8 132 5/8 134 1/8-1/4 : 116 5/8 115 116 3/8-1/2 117 1/8-1/4 13 135 1/2 134 135-136 1/8 : 117 1/2 116 115 7/8-3/4 135 5/8 134-133 7/8 : 117 3/8 115 3/4 14 133 7/8 134 1/2 115 3/8-1/4 15 132 7/8-3/4 : 116 1/2 115 1/4 132 3/4 16 132 3/4 132 3/4-5/8 : 115 5/8 114 5/8 115 1/2-5/8 131 7/8 Sunday 132 3/4-7/8 : 116 115 7/8-3/4 18 132 7/8 115 1/4 132 113 3/4-5/8 19 132 1/2 130 5/8 130 3/4-5/8 : 115 1/2 113 5/8 112 7/8 114-113 7/8 20 131 7/8 129 1/2 130 1/8-130 : 115 113 3/4-114 130 1/8-1/4 : 114 5/8 113 1/4 21 131 129 5/8 112 3/8-1/4 22 127 5/8-3/4 : 113 112 129 1/4 127 128 1/8-1/4 : 113 1/8 111 7/8 112 5/8-3/4 23 128 3/8 126 7/8 Sunday 113 1/4-3/8 112 7/8 25 128 1/2-5/8 : 113 3/4 128 7/8 128 113-113 1/8 26 128 3/8 128 7/8-5/8 : 114 1/4 112 7/8 129 1/2 111-110 7/8 110 7/8 27 126 7/8-3/4 : 112 3/8 128 1/2 126 5/8 109 7/8 L 110 1/8-1/4 28 125 3/4 L 126 1/8-1/4 : 111 1/8 **127** 1/8 110 3/4-7/8 110 5/8 29 127 1/4-3/8 : 111 1/2 127 3/4 127 30 127 7/8-3/4 : 111 3/8 110 3/4 111 1/4-1/8 127 1/2 138 Sunday 9 3/8 Range, Jan. 1937 10 1/2 Net Change : (Adv. Since 12/31/36(Dec. 7 1/2 121 1/4 Highest for future 137 3/4 December 28, 1936 Date December 28, 1936

104 1/4

July 22, 1936

96 7/8

October 2, 1936

H-highest; L-lowest.

Lowest for future

Date

WHEAT: Daily closing prices of the May future at Chicago, Winneapolis, Kansas City, Duluth, Table 6.

(In cents per bushel)	Buenos Aires				Н 100 3/8 Н	сл сл	and .	9/9	α	8/1 86			98 3/4	5			76			96	·9	o.				95 5/8	S	4	3 5/	93 7/8	4		6 3/4		5 5/8	1	ast page of this report.
ry, 1937.	Liverpool(2)				32 5/	30 1/	129 1/8	31 7/	30	31 1/		3	129 5/8	30	C4	29	27		27	126 3/8	26	\sim	24	22		\sim	$\mathcal{C}_{\mathcal{I}}$	CV3	\vdash	121 1/8	2	`	13		11	3 7/8	e note on 1
during	Vinnipeg(2)				$\frac{29}{1}$	26 1/	126 3/4	28 5/	27	03		28 5/	\	28	27 1/	S	25		24 1/	122 3/8	21 7/	22	\sim	C3		C3	21	19	\vdash		S		11 3/8		8/1 8	6 3/4	ces
Aires	Duluth(1) W				151 7/8 b H	20 p	$150 \ 1/2 \ b$	$51\ 3/$	501/	51		$50 \ 3/4$	150 1/2 b	51	150 1/2 a	49	148 a		4	143 1/2 a	44 1/	4	41	4		143 1/2 b	144 a	140	137 1/4 a L	140 1/4 b	40		14 5/8		8	15 1/4	(1) Durum pri
arch f	Kansas City				29 1/	S	126	27	26 3/	3		3	128 1/4	28 1/	S	26 3/	3		26 1/	124 1/4	23 1/	23	20 3/	$21\ 3/$		21 3/	121 1/2 b	20 1/	\vdash	3/	120 7/8		9 3/4		8 1/8	6 1/2	al sign)-split.
ool, and the	Winneapolis				7	3	140 5/8	2		142			_		5	140 5/8	140		140 1/4	138	36 7/	36 3/	34-	34		3	35 1/	33	32 1/	\sim	23		12		9 5/8	7 1/4	b-bid; =(equa
Winnipeg, and Liverpool	Chicago			,	5 5/8-3/	32 7/8-3/	131 7/8-3/4	33 1/2-5/	32 1/8-1/	34-133 7/		$3 \frac{3}{4-5}$	34 1/8	35-135 1/	4-133 7/	32 7/8-3/	32 3/4-5/		32 3/4-7	130 3/4-5/8	30 1/8-1	30 1/8-1	27 5/8-3	28 1/8-1		28 1/2-5/	28 7/8-5/	26 7/8-3/	26 1/8-	-3/	27		7, 1937 9 5/8	(Adv.	1	(Over Chicago d(Under Chicago	-lowest; a-as
Win	Date	January, 1937	noliday Holiday	Sunday	4	2	9	7	8	0	Sunday	11	12	13	14	15	16	Sunday	18	19	20	21	22	23	Sunday	25	26	27	28	29	30	Sunday	Range, January	nange	Since 12/31/3	Average Spread	F-highest; L

Table 7. CORN: Daily volume of trading (sales) Chicago Board of Trade, during January, 1937.

(In thousands of bushels, i.e., 000 omitted) F U T R \mathbb{E} Ū All Corn Date Futures May(1 July (1) Jan. (1) Sept. January, 1937 Holiday Holiday Sunday 9,925 2,370 795 13,090 5 2,893 H 943 14,145 H 10,309 H 6 11,581 8,541 2,439 601 7 423 6,874 4,913 1,538 8 486 6,559 4,886 1,187 9 1,213 317 L 4,879 3,349 Sunday 6,485 11 4,873 1,254 358 9,765 12 977 6,773 2,015 5,471 2,095 8,422 13 835 20 H 9,415 14 2,345 1,023 6,047 1.5 8,190 1,768 991 5,431 16 931 353 3,856 L 2,572 Sunday 6,129 18 3,880 1,438 811 8,186 19 5,412 1,887 887 9,543 1,797 20 6,725 1.021 7,190 21 1,244 514 5,432 9,678 22 6,505 1,996 1,177 4,795 516 23 1,118 3,161 Sunday 4,724 847 25 3,038 839 L 5,266 1,001 26 905 3,360 7,951 1,711 H 27 1,852 4,388 7,538 28 942 2,265 4,331 1,379 9,905 29 2,339 6,187 4,570 756 30 2,542 L 1,272 L Sunday Total, 188,736 19,635 41,000 20 128,051 January, 1937 Total, 249,159(2 1,450 December, 1936 49,628 144,659 Total, 49,279 1,398 10,671 January, 1936 37,210

⁽¹⁾ Since November 2, 1936, when a change was made in deliverable grades, trading is carried on in Old and New contracts in May and July corn, and since January 13, 1937, in January corn. The volume shown for these futures is combined Old and New.

⁽²⁾ Total includes 53,422 December corn.

Table 8. CORN: Daily volume of trading (sales) all futures combined, at Chicago and Kansas City, during January, 1937.

	(In thousands of	bushels, i.e., 000 omi	tted)
	Chicago (1)	Kansas City (1)	
Date	Board of	Board of	Total
	Trade	Trade	
January, 1937			
Holiday			
Holiday			
Sunday			
4	13,090	348	13,438
5	14,145 H	344	14,489 II
6	11,581	383	11,964
7	6,874	311	7,185
8	6,559	161	6,720
9	4,879	95	4,974
Sunday			
11	6 ,4 85	195	6,680
12	9,765	174	9,939
13	8,422	513	8,935
14	9,415	604 H	10,019
15	8,190	344	8,534
16	3,856 L	2 53	4,109 L
Sunday			
18	6,129	397	6,526
19	8,186	39 8	8,584
20	9,543	335	9,878
21	7,190	158	7,348
22	9,678	229	9,907
23	4,795	103	4,898
Sunday			
25	4,724	81 L	4,805
26	5,266	122	5,388
27	7,951	223	8,174
28	7,538	176	7,714
29	9,905	270	10,175
30	4,570	189	4,759
Sunday			
Total,			
anuary, 1937	188,736	6,406	195,142
Total,	240.750	F (0)	DE4 DC4
December, 1936	249,159	5,605	254,764
January, 1936	49,279	3,562	52,841

⁽¹⁾ Due to change in deliverable grades, Chicago began trading in both Old and New contracts on November 2, 1936, and Kansas City on January 4, 1937. The volume shown combines Old and New.

Table 9. CORN: Daily open commitments of Clearing Members, Chicago Board of Trade, during January, 1937.

(In thousands of bushels., i.e., 000 omitted) U T U \mathbb{R} E Date All Corn Futures Jan. May(1 July(1 Sept. January, 1937 Holiday Holiday Sunday 4 28,190 H 12,554 H 1,328 L 42,072 H 5 27,442 12,417 1,781 41,640 6 27,406 12,224 2,058 41,688 7 26,869 12,250 2,141 41,260 8 25,973 12,262 2,426 40,661 9 25,521 12,218 2,552 40,291 Sunday 11 25,075 12,238 2,741 40,054 12 25,001 11,952 3,036 39,989 13 20 24,861 11,872 3,285 40,038 14 20 H 24,144 11,633 3,501 39,298 15 10 23,722 11,657 3,861 39,250 16 10 23,665 11,614 3,835 39,124 Sunday 18 10 23,119 11,372 4,232 38,733 19 10 22,615 11,264 L 4,403 38,292 20 11,338 4,549 21,905 37,792 21 22,227 11,523 4,638 38,388 22 21,722 11,452 4,708 37,882 23 21,446 11,415 4,764 37,625 L Sunday 25 11,430 4,960 21,890 38,280 26 21,821 11,477 5,324 38,622 27 11,265 21,325 5,682 38,272 28 20,756 L 11,373 37,871 5,742 H 29 21,065 11,617 5,625 38,307 30 --- L 20,919 11,679 5,636 38,234 Sunday Average, January, 1937 23,695 11,754 3,867 39,319 Average,

H-highest; L-lowest.

December, 1936

January, 1936

Average.

13,167

5,519

<u> 239</u>

395

49,177(2)

22,597

(2) Average includes 8,827 average open commitments December corn.

27,073

16,744

⁽¹⁾ Since Tovember 2, 1936, when a change was made in deliverable grades, trading is carried on in Old and New contracts in May and July corn, and since January 13, 1937, in January corn. The open commitments shown for these futures are combined Old and New.

Table 10. CORN: Daily open commitments of Clearing Members, all futures combined, at Chicago and Kansas City, during January, 1937.

	(In thousands of bushels	s; i.e., 000 omitted)	
	Chicago (1)	Kansas City (1)	
Date	Board of	Board of	Total
	Trade	Trade	
January, 1937			
Holiday			
Holiday			
Sunday			4= 20= 22
4	42,072 H	1,121	43,193 H
5	41,640	1,110	42,750
6	41,688	1,164	42,852
7	41,260	1,209 H	42,469
8	40,661	1,171	41,832
9	40,291	1,187	41,478
Sunday	40.054	7 744	43 300
11	40,054	1,144	41,198
12	39,989	1,107	41,096
13	40,038	1,096	41,134
14	39,298	1,140	40,438
15 16	39,250	1,086	40,336 40,185
	39,124	1,061	40,100
Sunday 18	70 277	7 000	39,821
19	38,733	1,088 1,000	39,292
20	38,292	966	38,758
21	37,792	1,009	39,397
22	38,388 37,882	974	38,856
23	37,002 37,625 L	937	38,562 L
Sunday	37,025 H	301	00,000 2
25	38,280	944	39,224
26	38,622	928 L	39,550
27	38,272	967	39,239
28	37,871	964	38,835
29	38,307	1,019	39,326
30	38,234	1,011	39,245
Sunday	33,201	-, -	
AVERAge,			
January, 1937	39,319	1,058	40,378
Average,			
lecember, 1936	49,177	1,128	50,305
Average,			
January, 1936	22,597	2,095	24,692

⁽¹⁾ Due to change in deliverable grades, Chicago began trading in both Old and New contracts on November 2, 1936, and Kansas City on January 4, 1937. The open commitments shown combines Old and New.

Table 11. CORN: Daily high, low and closing prices of various futures, Chicago Board of Trade, during January, 1937.

(In cents per bushel) \mathbf{T} Date M Y JU \mathbf{L} Υ High Low closing Low Closing January, 1937 (NEW)(1) (NEW)(1)Holiday Holiday Sunday 4 111 109 3/8 110 7/8-111 107 105 5/8 106 7/8-107 5 111 3/4 109 3/8 109 7/8-3/4 107 5/8 105 1/2 105 3/4 6 111 108 3/4 109 1/4-1/8 : 106 3/4 104 7/8 105 1/4 7 110 3/4 109 3/4 110 3/8-1/2 : 106 3/4 106 106 1/4-3/8 109 3/8 110 7/8 109 1/2-5/8 : 106 3/4 105 3/8 105 1/2-3/8 9 110 1/2 109 1/2 110 1/8-110 : 106 3/8 105 1/2 106 1/8-106 Sunday 11 110 1/2 109 1/8 110 3/8-1/2 : 106 3/8 105 1/4 106 1/4-3/8 111 5/8 12 109 3/4 111 3/8-1/2 : 107 1/8 105 3/4 106 7/8-107 13 112 1/2 111 1/2 111 7/8-112 1/8: 107 5/8 107 1/4-3/8 107 14 113 1/8 H 111 1/2 112-111 7/8 : 108 3/8 H 107 107 3/8-1/4 15 112 1/2 111 111 1/4-1/8 : 107 5/8 106 5/8 106 3/4-5/8 16 111 1/2 110 3/4 111-111 1/8 : 106 7/8 106 3/8 106 3/4-7/8 Sunday F8. 112 1/8 112-112 1/8 : 107 3/8 111 106 1/2 107 1/4-3/8 19 112 1/4 110 3/8 110 1/2-3/8 105 5/8 : 107 1/2 105 7/8-5/8 20 111 5/8 109 1/2 110 1/4-1/8 : 106 3/4 105 1/2 105 21 110 5/8 108 3/4 109 3/8-1/2 : 106 105 1/2-5/8 105 22 109 3/8 107 1/2 108 1/8-107 7/8: 105 103 5/8 103 3/4 23 107 3/8 108 3/4 108 3/8-1/2 104 1/2 103 1/4 104 1/4-3/8 Sunday 25 109 1/2 108 1/4 109 1/8-109 104 1/4 105 104 5/8-1/2 26 110 109 1/8 109 5/8-1/2 : 105 1/2 104 5/8 104 3/4-5/8 27 110 108 1/2 108 5/8-1/2 104 3/4 102 3/4 103 1/4-1/8 28 108 3/4 106 3/4 107-106 7/8 : 103 1/8 101 3/8 101 3/4-5/8 29 107 3/4 105 3/4 L 106 3/8-1/4 : 102 3/8 100 1/2 100 3/4-5/8 30 106 7/8 105 7/8 106 1/4-1/8 101 1/8 100 1/2 L 100 7/8-3/4 Sunday Range, Jan. 1937 3/8 7 7/8 7 Net Change (Adv. Since 12/31/36(Dec. 21/24 1/4 Highest for future 113 1/8 108 3/8 Date January 14, January 14, 1937 Lowest for future 89 3/4 86 5/8 Date November 2, 1936 November 2, 1936

⁽¹⁾ Owing to change made November 2, 1936, in deliverable grades, trading is now carried on in Old and New contracts in May and July futures.

Table 12. CORN: Daily closing prices of the May future at Chicago and Kansas City and the March future at Buenos Aires, during January, 1937.

(In cents per bushel) Date Chicago (1) Kansas City(1) Buenos Aires (NEW) (NEW) January, 1937 Holiday Holiday Sunday 4 110 7/8-111 114 7/8 50 5/8 109 7/8-3/4 113 7/8 a 50 1/4 5 6 109 1/4-1/8 113 5/8 b Holiday 7 114 5/8 a 110 3/8-1/2 50 109 1/2-5/8 8 49 7/8 9 110 1/8-110 50 Sunday 110 3/8-1/2 114 1/8 50 1/8 11 114 1/2 b 111 3/8-1/2 50 12 50 1/2 115 7/8 a 13 111 7/8-112 1/8 50 7/8 116 b 14 112-111 7/8 H 111 1/4-1/8 $114 \, 5/8 = b$ 51 3/8 15 51 1/4 115 16 111-111 1/8 Sunday 51 1/2 112-112 1/8 $115 \ 1/4 = b$ H 18 19 110 1/2-3/8 52 51 5/8 114 1/2 110 1/4-1/8 20 114 1/4 a 51 1/4 109 3/8-1/2 21 112 1/2 a 50 7/8 108 1/8-107 7/8 22 51 1/8 108 3/8-1/2 23 Sunday 112 7/8 a 51 1/4 109 1/8-109 25 $113 \ 1/4 = b$ 52 109 5/8-1/2 26 52 3/8 112 1/4 27 108 5/8-1/2 51 1/4 107-106 7/8 111 1/2 28 51 3/8 110 5/8 a 106 3/8-1/4 29 110 1/4 51 1/2 106 1/4-1/8 L L 30 Sunday 2 1/2 Range, January, 1937 5/8 Not Change (Adv. Since 12/31/36(Dec. 21/24 (Over Chicago Average Spread

H-highest; L-lowest; a-asked; b-bid; =(equal sign)-split.

(Under Chicago

⁽¹⁾ Due to change in deliverable grades, Chicago began trading in both Old and New contracts on November 2, 1936, and Kansas City on January 4, 1937.

Table 13. OATS: Daily volume of trading (sales) all futures combined, at Chicago and Minneapolis, during January, 1937.

	(In thousands of bu	shels, i.e., 000 omitt	ed)
	Chicago	Minneapolis	
Date	Board of	Chamber of	Total
	Trade	Commerce	
January, 1937		-	
Holiday			
Holiday			
Sunday			
4	3,888	394	4,282
5	7,519	570	8,089
6	5,625	463	6,088
7	6,562	650	7,222
8	3,649	3 89	4,038
9	2,860	313	3,173
Sunday	2,000	010	0,170
11	2,111 L	228 L	2 770 1
12	3,069	321	2,339 L 3,390
13	6,717	458	·
14	6,940	1,100 H	7,175
15	4,321	534	8,040
16	2,713	2 88	4,855
Sunday	2, 9 (10	200	3,001
18	2,243	3 59	2 602
19	3,994	522	2,602
20	11,817 H	861	4,516
21	5,042	489	12,678 H
22	8,489	711	5,531
23	4,161	629	9,200
Sunday	4,101	029	4,790
25	3,929	550	4,479
26	3,732	444	4,176
27	5,121	499	5,620
28	4,856	646	5,502
29	3, 786	3 58	4,154
30	2,540	319	2,859
Sunday	£,5-±0	910	2,000
Total,			
January, 1937	115,684	12,115	127,799
Total,	110,001	# 67 9 de 4 U	4119100
December, 1936	125,697	18,728	144,425
Total,	22,0,001	20,100	2 2 2 3 200
January, 1936	13,780	3,070	16,850
	203100	1	

Table 14. OATS: Daily open commitments of Clearing Members, all futures combined, at Chicago and Minneapolis, during January, 1937.

(In thousands of bushels; i.e., 000 omitted) Chicago Minneapolis Date Chamber of Total Board of Trade Commerce January, 1937 Holiday Holiday Sunday 4 43,864 L 5,948 H 49,812 L 5 5,888 44,480 50,368 6 50,417 5,903 44,514 7 45,126 5,789 50,915 8 45,424 5,741 51,165 9 50,754 45,065 5,689 Sunday 50,716 11 45,029 5,687 12 44,588 5,701 50,289 5,601 50,186 13 44,585 50,244 14 5,456 44,788 50,180 15 44,882 5,298 50,343 5,285 16 45,058 Sunday 18 5,279 L 50,638 45,359 19 5,318 51,157 45,839 5,371 50,933 20 45,562 50,927 5,375 21 45,552 50,257 22 5,333 44,924 49,939 5,346 23 44,593 Sunday 5,367 50,857 45,490 25 51,343 5,379 26 45,964 5,382 51,436 27 46,054 50,987 5,424 28 45,563 51,537 29 5,430 46,107 51,912 H 5,460 30 46,452 H Sunday Average, 50,721 January, 1937 45,203 5,519 Average, 49,504 6,118 December, 1936 43,386 Average, 46,344 4,629 January, 1936 41,715

Table 15, OATS: Daily closing prices of the May future at Chicago, Minneapolis and Winnipeg, during January, 1937.

(In cents per bushel) Date Chicago Minneapolis Winnipeg(1) January, 1937 Holiday Holiday Sunday 52 1/4-3/8 50 5/8 53 1/2 b 5 52-52 1/8 50 1/4 52 1/2 L 6 52 3/8 $50 \ 3/8 = b$ 53 7 53 1/2-3/8 $51 \ 1/4 = b$ 54 5/8 8 52 3/4-7/8 50 7/8 54 1/4 9 53 1/8-1/4 $51 \ 1/2 = a$ 55= Sunday 11 53-53 1/8 51 1/4 a 55 12 53 1/4 b $51 \ 1/4 = b$ 55 13 54 1/8 a 52 1/8 56 1/8 14 57 1/2 54 3/8-1/4 H 52 3/8 b H H 15 55 1/4 53 7/8-54 51 3/4 16 53 5/8-3/4 $51 \ 5/8 = b$ 55 3/8= Sunday 18 53 7/8-54 $51 \ 3/4 \ a$ 55 3/8= 19 50 5/8= 52 7/8-53 54 3/4= 20 51 5/8-1/2 49 3/4 53 7/8= 21 49 1/4 b 54 3/8= 51 1/4-3/8 22 47 5/8 a 49 1/4-3/8 52 1/2= 23 48 1/8= a 54 1/2 49 3/4 a . Sunday 25 48 7/8= a 50 3/4-5/8 55 1/4 26 50 7/8-3/4 49= 54 3/4 27 53 7/8= 49 1/2-3/8 47 3/8= a 28 48 7/8-3/4 47 1/8= b $53 \ 1/2$ \mathbf{L} 29 49 1/8-1/4 54 1/4 $47 \ 1/2 = b$ 30 54 1/2 49 3/4-7/8 48 Sunday Perge, January, 1937 5 5/8 5 1/8= Net Change 2 1/4 (Adv. Since 12/31/36(Dec. 1 7/8 Average Spread (Over Chicago 2 5/8 Under Chicago 1 7/8

E-highest; L-lowest; a-asked; b-bid; =(equal sign)-split.

⁽I) See note on last page of this report.

Table 16. RYE, BARLEY and FLAX: Daily volume of trading (sales), all futures combined, at certain specified markets, during January, 1937.

(In thousands of bushels, i.e., 000 omitted)

Date	RY	E	B A	RLEY	FLAX
-	Chicago	Minneapolis	: Chicago	Minneapolis	: Duluth
January, 1937	7		:		:
Holiday			:		:
Holiday			•		•
Sunday			:		:
4	1,015	252	: 10	57	: 2
5	1,963 H	368	: 4	110	
6	1,333	250	:	68	
7	1,000	232	:	110	:
8	1,126	219	:	122	:
9	912	155	:	116	
Sunday			•		:
11	1,366	308	:	97	:
12	1,666	303	:	133	•
13	1,556	155	: 10	255	:
14	1,244	214	:	286 H	:
15	1,349	265	:	285	:
16	1,385	328	:	160	•
Sunday			:		:
18	739	204	:	84	: 1
19	1,099	237	:	99	: 2 H
20	1,756	346	:	124	: 1
21	809	178	: 10 H		
22	1,503	437 H	:	227	:
23	989	314	:	65	: 1
Sunday			:		:
25	1,126	272	:	57	
20	1,615	433	:	68	:
27	1,377	321	:	37 L	: 1
28	1,352	374	:	139	:
29	965	180	:	58	:
30	513 L	112 L	: L	53	: L
Sunday			:		•
Total, January, 1937	7 20 224	L AET	7.4	0.00:	:
Total,	20,024	6,457	: 34	2,986	: 8
December, 1936	38.057	9,284	: 165	4,861	: 17
Total,	00,007	0,201	• 100	4,001	• 1
January, 1936	8,406	3,805	: 30	686	• • 53

Table 17. RYE, BARLEY and FLAX: Daily open commitments of Clearing Members, all futures combined, at certain specified markets, during January, 1937.

(In thousands of bushels, i.e., 000 omitted)

. Date	R	Y E	BARL	, E Y	FLA	Х
	Chicago	Minneapolis	: Chicago	Minneapolis	: Duluth	
January, 1937			:		:	
Holiday			:		:	
noliday			:		:	
Sunday			:		:	•
4	8,113 L	•	: 61	1,068	: 5	
5	8,151	1,534	: 65	1,059	: 5	
6	8,117	1,533	: 65	1,086	: 5	
7	8,267	1,586	: 65	1,106 H	: 5	
8	8,737	1,574	: 55	1,013	: 5	
9	8,901	1,599	: 65	1,053	: 5	
Sunday			:		:	
11	9,219	1,610	: 65	1,059	: 5	
12	9,226	1,628 H	: 65	1,067	: 5	
13	9,228	1,618	: 65	1,105	: 5	
14	9,333	1,597	: 65	1,045	: 5	
15	9,581	1,553	: 65	962	: 5	
16	9,738	1,507	: 65	979	: 5 L	
Sunday			:		:	
18	9,752	1,531	: 65	992	: 6	
19	9,730	1,533	: 65	980	; 7	
20	9,681	1,522	: 65 H	984	: 8	4 4
21 '	9,640	1,508	: 55	973	: 8	
22	9,538	1,474	: 55	937	: 8 H	
23	9,470	1,439 L	: 55	918 L	: -7	
Sunday	0 507	3 15 5	:	0.50	•	
25	9,527	1,457	: 55	936	: 7	
26	9,619	1,509	: 55	943	: 7	
27	9,784	1,496	: 55	948	: 0	
28 29	9,924 9,925 H	1,507	5555	938 945	: 6	
30	9,925 n 9,859	•	: 55 L	945	: 6	
Sunday	9,009	1,492	. 00 L	010		
Average,			:		:	
January, 1937	9,294	1,535	: 61	1,003	· : 6	
Average,	3 400		:	3 00 3	•	
December, 1936 Average,	6,493	1,530	: 77	1,696	: 13	
January, 1936	8,349	3,154	: 42	1,346	: 65	

RYE, BARLEY and FLAX: Daily closing prices of the May future at Chicago, Minneapolis, Duluth and Winnipeg, during January, 1937. (In cents per bushel) Table 18.

E I A V	4		20 a 17	19 a 170=	18 b 17	20 1/2 b 173	4	22 1/2 b 174 1/	173 3/4 b	2/I G/I H G Z/I \$2	23 3/4 a 174 7/ 29 h	19 2 170 5/8		18 1/2 a 170 3/4	. `	17 1/2 a 167 5/8	17 1/2 n 1	15 a 167 1/8	15 167		15 b 168 = b	168 //8=	0/0/01/01/01/01/01/01/01/01/01/01/01/01/	167 1/8=	15 n L 170		: 9 1/2 9=	V/ L Z C/ L Z	1 0 2/1 1	
E V	neapolis Winripeg(1)		9 3/	3/1 11	79 3/	81 1/8	1/2 80 1/2 5/8 83 1/8	3 3/	85 1/4	/S ## 60/	0 0 7 1	/8 a 82 3/		/4 82 $3/4=$	$1/2 \qquad \epsilon 1 \ 5/\epsilon = b$	=8/9 08 q 8/	/4 a 81 $1/4$ =	/4 79 $3/4=$	/4 a 80 3/		4 82 3/8 /0 3 63 5/8	5/8 b 81 5/8= 1/4 c 8 2/8=	70/000 F/	/8 b \$0 3/8	/4 b 80 3/		10 1/2=	3/4		3 3/8
-	1.7	•• •• ••	H : 84	: 84 n 79	: 84 n 79	: 84 n 79	* 84 n 79	4 n 80	81	20 d 2/T /8	. 88 5/8 b 83	8 5/8 n 82		8 5/8 n 82	n H 81	5 b 79	5 b 79	4 a 78	4 n 79	()	4 n 79		4 7 76	4 K	4 n L 78	••	: 4 5/8 7	و/ ا		2
Thee, and the can	olis Winnipeg(1)		b H 112=	$108 \ 3/4$	b $108 \frac{1}{2} = 1$	b 108 7/8	b $107.5/8$ a $109.5/8$		b 107	108 1/4 b		7/8=	•	2 1/	b 101	a 100 3/	101 1/4	b L 101 5/	a 104 3/8	0/ 1	8/I /OI q	// 101	201	b 105 7/8	106		11 1/4	נר,		5 1/4
74.	ago Minrean		1 3/	109 1/	/4 108 5/	109 5/	3/8 b 107 3/4 3/8 108 7/8	/4 b 108	107	/4 a 109 b	0T	105	•	/4 a 105	103	/8 103 3/	/4 103 5/	L 101	108 1/8 104 1/4		/1 col d s/	901	103 103	(8 b 104 5/	-1/4 104		9 1/2 10	5 1/2 6 3/4		
	Date Chicago	1937 y y	_	11.	11		8 112	11	12	1 .	11				19								20 L	110	30 110	Sunday	ge, January,	Net Change (Adv. Since 12/31/36(Dec.	verage Spread	

H-highest; L-Lowest; a-asked; b-bid; =(equal sign)-split; n-nominal. (1) See note on last page of this report.

Table 19. ALL GRAINS: Daily volume of trading (sales) all futures combined, at four principal markets, during January, 1937.

(In thousands of bushels, i.e., 000 omitted) Chicago(1) Minneapolis Kansas City(1) Duluth Board of Chamber of board of Total Date Board of Trade Commerce Trade Trade January, 1937 Holiday Holiday Sunday 44,678 2,292 49,640 2,602 68 H 4 5 66,091 2,838 2,823 29 71.781 58,277 2,057 2,326 64 62,724 6 7 47,739 42,734 2,301 2,690 14 8 38,835 1,818 1,784 5 42,442 9 35,303 27 38,871 1,630 1.911 Sunday 35,198 1,792 19 11 1,808 38.817 12 48,536 1,834 2,363 41 52,774 13 49,860 2,310 2,133 14 54,317 2,911 14 50,672 2,578 12 56,173 15 41,731 2,122 2,470 8 46,331 16 28,524 1,873 1,777 10 32,184 Sunday 1,422 18 24,071 1,712 4 27,209 19 2,865 19 47,448 2,327 52,659 3.047 20 66,440 H 3.020 H 34 73.147 H 21 1,922 37,707 1,966 41,601 6 22 59,867 3,041 7 3,463 66,378 23 33,096 2,252 39 36,920 1,533 Sunday 25 28,854 2,053 32,340 1,421 12 26 32,156 2,021 8 1,484 35,669 27 47,114 2,123 2,333 8 51,578 28 44,496 3,056 H 13 1,925 49,490 29 39,075 1,650 1,438 13 42,182 30 18,342 L 1,119 L 1,081 L 2 L 20,544 L Sunday Total 1,019,105 51,833 52,096 476 1,123,510 Average 42,463 2,160 2,171 20 46,813

⁽¹⁾ Old and New contracts combined.

WHEAT, CORN, OATS, RYE, BARLEY and FLAX: Total volume of trading (sales) at all contract markets, during January, 1937. Table 20.

	Total All Grains	1,019,105	19,515	51,833	52,096	476	\$ } }	3,955	115	13	t ! !	1 1 2	8 8	1,147,108	1,622,433	532,904	
	Flax	1	!	348	1 1	∞	1 1 1	1 1 1	!!!	8 8 8	\$ 6 8	2 2 2	8	358	689	537	
	Barley	34	!!!	2,986(2)	\$ 8 8	1 1 2	8 8	9 8 8	1 1 1	† †	\$ \$ \$	† † †		3,020	5,030	724	
OOC omitted)	Rye	29,824	110	6,457	1 1	4	! ! !	268	8 8 8	\$ 1 1	1 1 2	! ! !	2 2	36,663	47,778	12,366	
j. 0.	Oats	115,684	896	12,115	414	2 2 2	! ! !	937	1 1	t t	1 1		8 8	130,046	146,459	17,067	
ands of bushels,	Corn	188,736(1)	2,813(1)	1 1	6,406(1)	2 2 2	t t	1,211(1)	!	\$ 1 1	8 8 1	! !	e e e	199,166	258,319	53,744	
(In thousands	Wheat	684,827	15,696	erce 29,927	45,276	464(3)	i ! ! ! !	nange 1,539	115	13	mmerce	!!!	8 8	777,857	1,164,158	448,466	nbined.
	Market	Chicago Board of Trade	Chicago Open Board	Minneapolis Chamber of Commerce	Kansas City Board of Trade	Duluth Board of Trade	St. Louis Merchants Exchange	Milwaukee Grain & Stock Exchange	Seattle Grain Exchange	Portland Grain Exchange	San Francisco Chamber of Commerce	Los Angeles Grain Exchange	New York Produce Exchange	ary,	All ber,	Total All Markets, January, 1936	(1) Old and New contracts combined

⁽¹⁾ Old and New contracts combined. (2) Total includes 10 Malting barley. (3) All durum.

All durum.

Deliveries of grain and flaxseed on the 1936 December future, for all contract markets and their relation to the volume of trading.

1936 DECEMBER WHEAT FUTURE

: Ratio of total : quantity of : actual grain delivered : to volume of : futures settled : by delivery	1 to 1.09	1 to 1.13 1 to 1.15 1 to 1.10 1 to 1.15
Ratic of total quantity of actual grain delivered to total quantity sold during life of future	1 to 1,320 1 to 168 1 to 906 1 to 47 1 to 24	1 to 822 1 to 1,126 1 to 506 1 to 1,100
Total quantity actual y grain delivered: re: Bushels:	1,376,021 1,013,000 117,000 77,000 13,000(1)	2,596,021 FUTURE 806,000 60,000
Volume of futures settled by delivery : tity : Percentage of total quantity sands: sold during hels : life of future	0.08	DECEMBER CORN FU O 0.10 S6
Volusett Sett Quantity Thousand bushels	1,499	2,935 1936 DE 930 66
Total: quantity: sold during: life of: future: Thousands: bushels:	1,815,828 35,018 170,476 105,963 3,600 313 2,751 2,751	2,134,091 907,334 11,005 30,390 3,614
Market	Chicago Board of Trade Chicago Open Board Kansas City Minneapolis Duluth Seattle Portland Milwaukee St. Louis	Total Chicago Board of Trade Chicago Open Board Kunsas City Milwaukee Winneapolis St. Louis

(1) Includes 2,000 bushels in carlots.

Deliveries of grain and flaxseed on the 1936 December future, for all contract markets and their relation to the volume of trading. (Cont.)

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1936 DECEMBER OATS FUTURE	ı
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		1936	DECEMBER OATS	FUTTIRE		
	: Total :	Volume		••	Ratio of total	: Ratio of total
	: quantity :	settled	by delivery:	Total:	quantity of	: quantity of
	:sold during:			quantity:	actual grain	: actual grain
Market	: life of :	Quantity	:Percentage of :	actual:	delivered to	: delivered
	: future :		:total quantity:	grain :	total quantity	: to volume of
	Thousands	:Thousands	: sold during :	red:	sold during life	:futures settled
	: bushels :	bushels	:life of future:	Bushels	of future	: by delivery
Chicago Board of Trade	311,621	2,473	0.79	364,991	1 to 854	1 to 6.78
Chicago Open Board	1,635	ಬ	.31	5,000	l to 327	1 to 1.00
Minneapolis	56,956	489	. 86	226,000	1 to 252	1 to 2.16
wilwaukee	1,821	1 1	i 1	1	!	1 1
Kansas City	1,989	128	6.44	103,000	1 to 19	1 to 1.24
Total	374,023	3,095	0.83	698,991	l to 535	l to 4.43
:		1930	DECEMBER RYE	PUTURE		
Chicago Board of Trade	58,775	512	0.87	365,950	1 to 161	1 to 1.40
Caicago Open Board	76	1 1	-	1	1	i
Winneapolis	13,921	173	1.24	146,000	1 to 95	1 to 1.18
Duluth	14	1	1	i	1	1
hilwaukee	436	1	1	1	1	1
Total	73,222	685	0.94	511,950	1 to 143	1 to 1.34
		Ö.	י. עפוטאמ משמאשטפט אפטר	ממוותוום ע		
	î r	L L	Nachianan O	2		1
Unicago Board of Trade	%T% 			000 , 3	I to I	—
Minneapolis	(T)08/. 9T .		4.5	_	/ I to 23	I to I.O7
. Duluth	1 0	1 1		1 1	1	î î
	200	1	1 1	1	1	!
Los Angeles	40	î î	í	1 1	l i	1
Wilwaukee	4	i	i	í	i i	i i
Total	17,735	775	4.37	726,000	l to 24	1 to 1.07
		1936	DECEMBER FLAX	FUTURE		
Winneapolis	2,839	73	2.57	73,000	1 to 39	1 to 1.00
Duluth	222	18	8,11	18,000	1 to 12	1 to 1.00
Total	3,001	91	2.97	91,000	1 to 34	1 to 1.00
	•					

(1) Includes 1,485,000 bushels Malting barley. (2) Includes 540,000 bushels Malting barley.

Note: Because of the wide fluctuations in foreign exchange, which began September 21, 1931, and are still continuing, the Liverpool prices are calculated from the closing price of the pound sterling on the money exchange and the closing price of Liverpool futures on the grain exchange, while the Winnipeg prices are calculated from the closing price on the Winnipeg Grain Exchange and the premiums and discounts on Canadian currency as furnished by one of the large Chicago banks.

The following table shows the reported high, low and closing quotations on the pound sterling, together with the high, low and closing percent premiums and discounts applied to Canadian currency:

		Pound Sterling :				: Canadian currency						
					:	High		Low		Clos	sing	
		High	Low	Closing	:Pe	r cent	,	Per c	ent	Per c		
19	37				1		-					
Ja	n. 4	\$4.91.1/4	\$4.90 15/16	\$4.91 1/4	:	1/32 P	re.	1/64	Pre.	1/32	Pre.	
	5	4.91 11/16	4.91 3/8	4.91 3/8	:	3/64	11	1/32	11	3/64	11	
	6	4.91 9/16	4.91 5/16	4.91 5/16	:	3/64	tt	1/32	11	3/64	11	
	7	4.91 5/16	4.91 1/8	4.91 1/4	:	1/16	††	3/64	11	3/64	11	
	8		4.91 3/16	4.91 5/16	:	1/32	11	1/32	11	1/32	††	
	9	4.91 1/8	4.90 15/16	4.91	:	1/32	11	1/64	11	1/64	11	
	11	4.98 1/8	4.90 5/16	4.91 1/16	:			1/64	11	1/64	11	
	12	4.91 5/16	4.91 3/16	4.91 1/4	:	1/64	11	1/64	11	1/64	İŢ	
	13	4.91 1/4	4.91 1/8	4.91 3/16	:	1/64 D	is.	Par		1/64	Dis.	
	14	4.91 3/16	4.90 15/16	4.91 1/8	:	1/32	11	1/64	11	1/32	11	
	15	4.91 3/16	4.91 1/16	4.91 3/16	:	3/64	11	1/32	11	1/32	ŤŤ	
	16	4.91 1/8	4.91 1/16	4.91 1/8	:	5/64	tf	1/16	11	5/64	**	
	18	4.91 1/8	4.91	4.91 1/16	:	3/32		5/64	11	3/32	11	
	19	4.91	4.90 13/16	4.90 7/8	:	7/64	11	3/32	11	7/64	ŤŤ	
	20	4.90 7/8	4.90 5/8	4.90 11/16	:	5/64	11	1/16	11	5/64	11	
	21	4.90 5/8	4.90 1/8	4.90 3/16	:	5/64	11	5/64	ft	5/04	11	
	22	4.90 1/2	4.90 1/8	4.90 5/16	:	1/16	11	1/16	11	1/16	11	
	23	4.90 7/16	4.90 1/4	4.90 3/8	:	1/16		1/32	11	3/64	11	
	25	4.91 1/16	4.90 7/16	4.90 15/16	:	3/64		1/32	11	1/32	††	
	26	4.90 7/8	4.90 1/8	4.90 1/4	:	0/		1/32	11	3/64	11	
	27	4.90 3/16	4.89 15/16	4.90	:	1/16		1/16	11	1/16	11	
	28	,	4.89 3/4	4.90	:	0/01		1/32	11	1/32	11	
	29	4.90	4.89 3/4	4.89 13/16	:	1/64		1/64	11	1/64	44	
	30	4.89 13/16	4.89 3/4	4.89 13/16	:	1/64	11	1/64	††	1/64	11	

